

Title (en)

A non-pneumatic vehicle tire and wheel assembly

Title (de)

Luftlosen Fahrzeugreifen und Felge umfassende Baugruppe

Title (fr)

Ensemble roue et bandage non pneumatique pour véhicule

Publication

EP 2422967 A1 20120229 (EN)

Application

EP 11179219 A 20110829

Priority

US 87089810 A 20100830

Abstract (en)

A composite material comprises a plurality of springs (55) embedded within a polymer wherein each spring is interwoven with at least one other spring. The material may be used in a non-pneumatic tire (100) for forming a toroidal carcass structure extending about an entire circumference of the tyre. The material may also be used in a tire (300,600) component.

IPC 8 full level

B29D 30/00 (2006.01); **B29D 30/06** (2006.01); **B60C 7/20** (2006.01); **B60C 9/16** (2006.01)

CPC (source: EP US)

B29D 30/00 (2013.01 - EP); **B29D 30/02** (2013.01 - EP); **B29D 30/06** (2013.01 - EP); **B60C 7/18** (2013.01 - US); **B60C 7/20** (2013.01 - EP US); **B60C 9/16** (2013.01 - EP US); **B29D 30/00** (2013.01 - US); **B29D 30/02** (2013.01 - US); **B29D 30/06** (2013.01 - US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2422967 A1 20120229; AR 083640 A1 20130313; BR PI1103957 A2 20150825; CN 102433010 A 20120502; IL 214713 A0 20120229; US 2012048440 A1 20120301; US 9616713 B2 20170411

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EP 11179219 A 20110829; AR P110103052 A 20110823; BR PI1103957 A 20110825; CN 201110252438 A 20110830; IL 21471311 A 20110818; US 87089810 A 20100830